

POLYMERIZATION CATALYST SYSTEM USING
DI-SEC-BUTYLDIMETHOXYSILANE FOR
PREPARATION OF POLYPROPYLENE

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Abstract of the Disclosure

It has been discovered that using di-sec-butyldialkoxysilanes, such as di-sec-butyldimethoxysilane (DSBDMS), as external electron donors for Ziegler-Natta catalysts can provide a catalyst system that may prepare polypropylene films with improved properties and processing. The catalyst systems of the invention provide high activity, high bulk density, moderate hydrogen response, moderate donor response and high polydispersity (MWD). Suitable di-sec-butyldialkoxysilanes have the formula (^sBu)₂Si(OR")₂, where R" is independently a straight or branched alkyl group of 1-5 carbon atoms.

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